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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/685,978	10/15/2003	Jeffrey L. Elkins	ELK03 P-301	7105	
277	7590 05/08/20	06	EXAM	INER	
PRICE HENEVELD COOPER DEWITT & LITTON, LLP			SWEET, 1	SWEET, THOMAS	
695 KENMO	OOR, S.E.				
P O BOX 2567			ART UNIT	PAPER NUMBER	
GRAND RAPIDS, MI 49501			3738		
			DATE MAILED, 05/09/200	•	

Please find below and/or attached an Office communication concerning this application or proceeding.

11 11	A sellending No.	[A !!			
	Application No.	Applicant(s)			
Office Action Communication	10/685,978	ELKINS, JEFFREY L.			
Office Action Summary	Examiner	Art Unit			
	Thomas J. Sweet	3738			
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the o	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPI	I V IS SET TO EVDIDE 2 MONTH	(S) OR THIRTY (20) DAYS			
WHICHEVER IS LONGER, FROM THE MAILING [- Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tired will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 023	September 2005.				
· _ ·					
3) Since this application is in condition for allows	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-12</u> is/are pending in the application	n				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-12</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/	or election requirement.				
Application Papers					
9) The specification is objected to by the Examin	ner				
10) The drawing(s) filed on is/are: a) ac		Examiner.			
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the corre					
11) The oath or declaration is objected to by the E	Examiner. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 119(a)-(d) or (f).			
a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.2. Certified copies of the priority documents have been received in Application No					
Copies of the certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Burea	•	od III tillo Mational Otage			
* See the attached detailed Office action for a lis	, , , ,	ed.			
	·				
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary				
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 	Paper No(s)/Mail D 5) Notice of Informal F	ate Patent Application (PTO-152)			
Paper No(s)/Mail Date 10/15/03 & 1/6/06.	6) Other:	· · · · · · · · · · · · · · · · · · ·			

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DETAILED ACTION

Election/Restrictions

Applicant's election with traverse of Group I in the reply filed on 09/02/2005 is acknowledged. The traversal is on the ground(s) that the claims have been amended to include the particulars of the subcombination in the combination. This is found persuasive because the combination as amended is not separable from the subcombination.

Claim Objections

Claims 3 and 9 are objected to because of the following informalities: Claims 3 and 9 each recites the limitation "the insole" in line 1. There is insufficient antecedent basis for this limitation in the claim. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1, 3-4, 6, 9-10 and 12 are rejected under 35 U.S.C. 102(a) as being anticipated by Biedermann (US 6423098). Biedermann discloses a foot-operated controller (fig. 1) comprising: a substrate (the cover of 5) having a plurality of pressure sensors (s4-s7) mounted at selected location on the substrate to facilitate control of a controllable device (prosthesis) by application of pressure from selected parts of a foot to the sensors (col 2, lines 24-32); and a microprocessor (col 2, lines 36-42) for receiving input from the sensors and converting the sensor inputs into commands for the controllable device.

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With regard to claims 3 and 9, the sensors are located on (when darning a shoe either held in contact with the insole of a shoe) or within the insole of a shoe (the covering of foot 5 can be categorized as an insole since it is receivable in a shoe).

With regard to claims 4 and 10, the microprocessor is hard-wired to the controllable device (as schematically shown in the fig.).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5 and 11 are rejected under 35 U.S.C. 102(a) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Biedermann. Biedermann discloses a footoperated controller as discussed above including a microprocessor located on the substrate (the hard-wired circuit). In as far as the microprocessor being located on the same support, Biedermann remains silent only showing the hard-wiring schematic and never mentioning the mounting. Applicant has not disclosed that mounting the sensors and microprocessor on the same support solves any stated problem or is for any particular purpose. Moreover, it appears that the foot-operated controller would perform equally well with the sensors and microprocessor mounted on the same support. Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have mounted the microprocessor on the support (the cover of 5) of Biedermann with the sensors because such a modification would have been

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considered mere design consideration which fails to patentably distinguish over the prior art of Biedermann.

Claims 2 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Biedermann. Biedermann discloses a foot-operated controller as discussed above. However, Biedermann does not discloses a radio transmitter for sending the commands for controllable device. It is well known in the art of control devices to use a radio transmitter for the purpose of sending the communicating commands between components. It would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute a radio transmitter for the hard-wiring of Biedermann in order to communicate commands between components. Such a modification amounts to mere substitution of one functionally equivalent communication system for another within the art of control devices.

Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Alderson (US 2640994) in view of Biedermann. Alderson discloses a foot-operated controller (figs. 31 or 36) comprising: a substrate (figs. 23,24 and 35) having a plurality of pressure sensors (576, 578, etc...) mounted at selected location on the substrate (as shown) to facilitate control of a controllable device (prosthetic hand/arm) by application of pressure from selected parts of a foot to the sensors; and a control system (relay pouch) for receiving input from the sensors and converting the sensor inputs into commands for the controllable device. However, Alderson does not disclose using a microprocessor as the control system. It is well known in the art of prosthetics to use a microprocessor as a control system for a prosthesis such as demonstrated by Biedermann. It would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute a microprocessor such as taught by Biedermann for the control

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system of Alderson in order to control the prosthetic hand/arm. Such a modification amounts to mere substitution of one functionally equivalent control system for another within the art of prosthetics.

With regard to claims 2 and 8, although, neither Alderson or Biedermann do not discloses a radio transmitter for sending the commands for controllable device. It is well known in the art of control devices to use a radio transmitter for the purpose of sending the communicating commands between components. It would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute a radio transmitter for the hard-wiring of Alderson as modified in order to communicate commands between components. Such a modification amounts to mere substitution of one functionally equivalent communication system for another within the art of control devices.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Numerous references are listed on the PTO-892 form.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas J. Sweet whose telephone number is 571-272-4761. The examiner can normally be reached on 6:30 am - 5:00pm, M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine M. McDermott can be reached on 571-272-4754. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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